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PUBLIC SERVICE
COMMISSION

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February 6, 2008

FEDERAL EXPRESS

Public Service Commission
Attn: Eric Bowman
211 Sower Boulevard
P.O. Box 615
Frankfort, Kentucky 40601

Re: Greenwood - Site 1355
Docket No. 2008-00018

Dear Eric:

Please find enclosed for filing an original and five (5) copies of the Geotechnical Report regarding the above. Please attach same as Exhibit B to the Application.

Thank you for your assistance in this matter. If you have any questions or require further information, please do not hesitate to contact me.

Very truly yours,

A handwritten signature in black ink, appearing to read 'PRH', is written over the typed name 'Patrick R. Hughes'. The signature is fluid and cursive.

Patrick R. Hughes

PRH/rmc
Enclosures

cc: Sherry McFee

149011.1

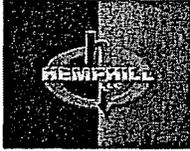
ATTORNEYS AT LAW

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**PUBLIC SERVICE
COMMISSION**

EXHIBIT B



1350 North Louisville
Tulsa, OK 74115
Off: 918-834-2200
Fax: 918-836-6918

**GEOTECHNICAL SUMMARY REPORT
SITE LOCATION: GREENWOOD, KY
HEMPHILL PROJECT NO. 1355**

TOWER TYPE: GUYED TOWER

TOWER HEIGHT ABOVE GROUND LEVEL: 340'

SOIL DESCRIPTION: REFER TO BORING LOGS

SURFACE WATER: NONE OBSERVED

DEPTH TO GROUND WATER: NONE

**RECOMMENDED TYPE OF FOUNDATION: PAD AND PEDESTAL
WITH DEADMAN ANCHORS**

**MINIMUM FOUNDATION BEARING DEPTH: 4' BELOW GROUND LEVEL
FOR PAD AND 9' BELOW GROUND LEVEL FOR DEADMAN ANCHORS**

ESTIMATED DESIGN PARAMETERS (MEAN):

- 1. UNIT WEIGHT (MOIST) γ : 110 pcf**
- 2. PHI ANGLE ϕ : 18°**
- 3. COHESION, c: 3.5 KSF**
- 4. NET ALLOWABLE BEARING PRESSURE: 3.5 KSF**

BORING LOG

HOLE NO. T-1

PROJECT: Greenwood, KY - 340 Ft. Guyed Tower

SHEET 1 OF 01

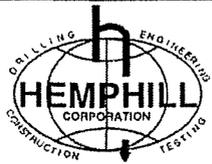
HOLE LOCATION: See Boring Location Plan

DATE: 1/30/08

GR. ELEV.: WATER TABLE: Dry

BORED BY: Jones Excavat. LOGGED BY: C. Watkins

ELEV.	DEPTH AND SCALE	LEGEND	DESCRIPTION OF MATERIAL (TYPE, COLOR, TEXTURE, CONSISTENCY)	CASING INFORMATION																																	
				SIZE	FT-RUN	FT-PULLED	FT-LEFT																														
	0.5		SAND, Silty, Moist																																		
	4.0		CLAY, Sandy, Silty, Dark Brown, Moist	DRILLING MUD TYPE: _____ NO. SACKS: _____																																	
	7.0		CLAY, Silty, Light Brown, Moist	THD CONE PENETROMETER <table border="1"> <thead> <tr> <th>START</th> <th>1ST INTERVAL</th> <th>2ND INTERVAL</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>				START	1ST INTERVAL	2ND INTERVAL																											
START	1ST INTERVAL	2ND INTERVAL																																			
	9.0		SHALE, Firm, Light Brown, Dry	NO. BAG SAMPLES: 4 STANDARD PENETRATION <table border="1"> <thead> <tr> <th>FROM</th> <th>TO</th> <th>BLOWS</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>				FROM	TO	BLOWS																											
FROM	TO	BLOWS																																			
	9.5		SHALE, Weathered, Refusal	SHELBY TUBE SAMPLES <table border="1"> <thead> <tr> <th>FROM</th> <th>TO</th> <th>FROM</th> <th>TO</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>				FROM	TO	FROM	TO																										
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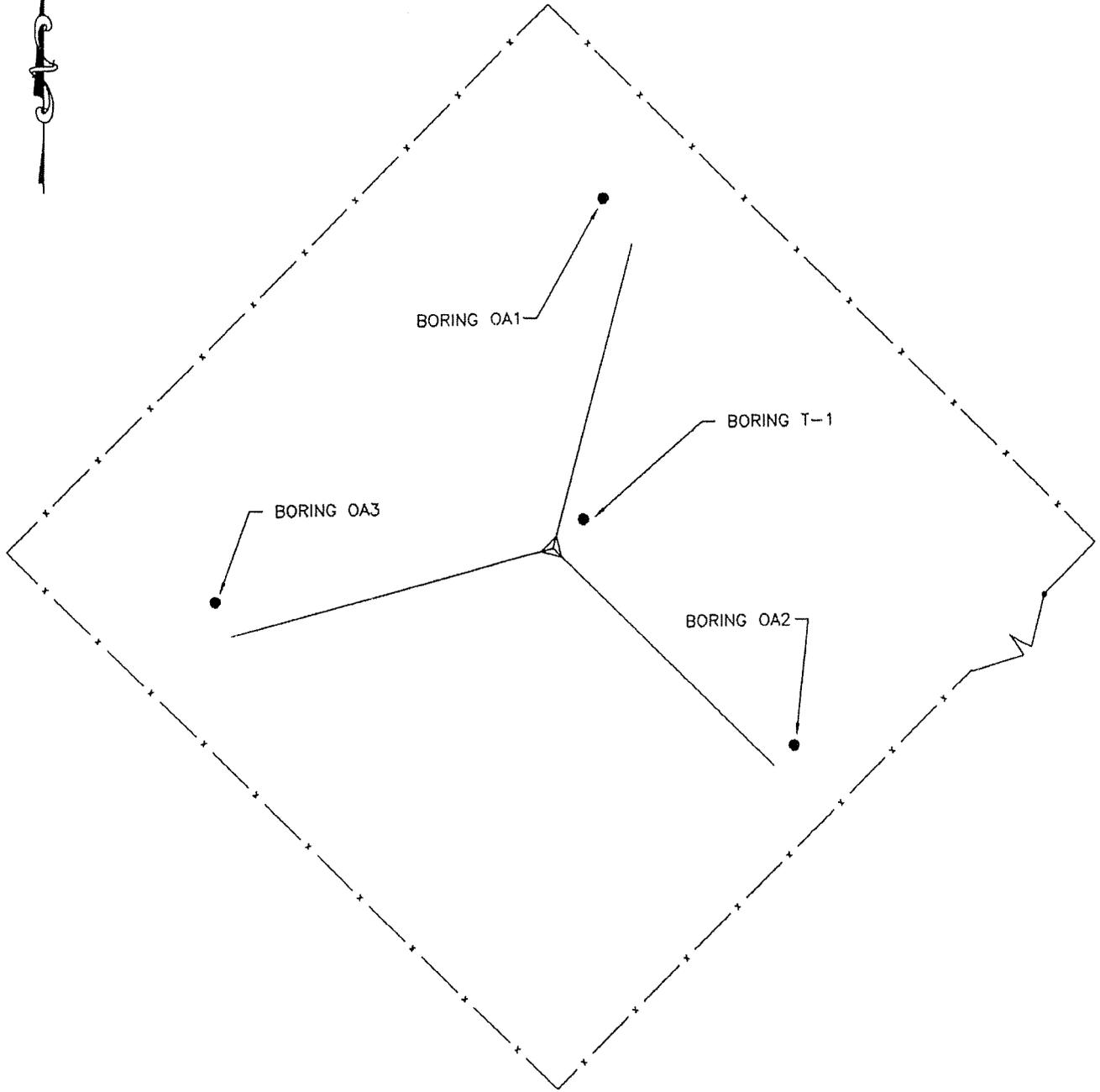
CONSULTING ENGINEERING ♦ GEOLOGICAL INVESTIGATION ♦ ENGINEERING INSPECTION

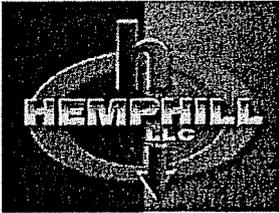
HEMPHILL CORPORATION

3515 Dawson Road
TULSA, OKLAHOMA 74115

OFFICE - (918) 834-2200

FAX - (918) 836-7109



	Title: BORING LOCATION PLAN	
	Cust: HEMPILL CORPORATION	
	Site: GREENWOOD, KY	
	Dwn.By: SJM	Job No. 1355
	Chk.By	Scale None
	Date: 1/30/08	Dwg.No. 1355-BLP